



PTO/SB/08A (07-05)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 6

Complete If Known

Application Number	10/791,491
Filing Date	March 2, 2004
First Named Inventor	Wang
Art Unit	1773
Examiner Name	Le, Hoa T
Attorney Docket Number	P02082US1A

U.S. PATENT DOCUMENTS				
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
HL	US-	3,972,963	8/3/1976	Schwab et al.
	US-	4,233,409	11/11/1980	Bulkley
	US-	4,247,434	1/27/1981	Vanderhoff et al.
	US-	4,463,129	7/31/1984	Shinada et al.
	US-	4,543,403	9/24/1985	Isayama et al.
	US-	4,788,254	11/29/1988	Kawakubo et al.
	US-	4,829,130	5/9/1989	Licchelli et al.
	US-	4,837,274	6/6/1989	Kawakubo et al.
	US-	4,837,401	6/6/1989	Hirose et al.
	US-	4,870,144	9/26/1989	Noda et al.
	US-	4,904,730	2/27/1990	Moore et al.
	US-	4,904,732	2/27/1990	Iwahara et al.
	US-	4,906,695	3/6/1990	Blizzard et al.
	US-	5,075,377	12/24/1991	Kawakubo et al.
	US-	5,120,379	6/9/1992	Noda et al.
	US-	5,514,753	5/7/1998	Ozawa et al.
	US-	5,169,914	12/8/1992	Kaszas et al.
	US-	5,219,945	6/15/1993	Dicker et al.
HL	US-	5,237,015	8/17/1993	Urban

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HL	WO 01/87999A2		11/22/2000	Faust et al.
HL	WO 02/100936		12/19/2002	Exxon Chem.
HL	WO 02/31002A1		4/18/2002	UAB Res. Found.
HL	WO 91/04992		4/18/1991	Exxon Chem.

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HL	US-	5,247,021	9/21/1993	Fujisawa et al.	
	US-	5,262,502	11/16/1993	Fujisawa et al.	
	US-	5,290,873	3/1/1994	Noda et al.	
	US-	5,331,035	7/19/1994	Hall	
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	US-	5,739,267	4/14/1998	Fujisawa et al.	
	US-	5,777,037	7/7/1998	Yamanaka et al.	
HL	US-	5,811,501	9/22/1998	Chiba et al.	

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HL		WO2004/058874	7/15/2004	Bridgestone Corp.	T ⁶
HL		EP 0 265 142 A2	4/27/1988	Rohm and Haas	
HL		EP 0 590 491 A2	4/6/1994	Bridgestone	
HL		EP 1 099 728 A1	5/16/2001	Chiba et al.	

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		Number-Kind Code ² (if known)			
HL	US- 5,834,563		11/10/1998	Kimura et al.	
	US- 5,849,847		12/15/1998	Quirk	
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	US- 5,883,173		3/16/1999	Eispass et al.	
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	US- 6,020,446		2/1/2000	Okamoto et al.	
	US- 6,025,416		2/15/2000	Proebster et al.	
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	US- 6,106,953		8/22/2000	Zimmermann et al.	
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	US- 6,268,451		7/31/2001	Faust et al.	
	US- 6,277,304		8/21/2001	Wei et al.	
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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
HL	EP 1 134 251 A1		9/19/2001	Okamoto et al.		
HL	JP 08-199062		8/6/1998	Mitsubishi Chem.		

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		Number-Kind Code ² (if known)	MM-DD-YYYY		
HL		US- 6,598,645	7/29/2003	Larson	
		US- 6,750,297	8/15/2004	Yeu et al.	
		US- 6,759,464	7/6/2004	Ajbani et al.	
		US- 6,835,781	12/28/2004	Kondou et al.	
		US- 6,872,785	3/29/2005	Wang et al.	
		US- 6,875,818	4/5/2005	Wang	
		US- 2002/0095008	7/18/2002	Heimrich et al.	
		US- 2002/0144401	10/10/2002	Noqueroles Vines et al.	
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		US- 2003/0032710	2/13/2003	Larson	
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		US- 2004/0143064	7/22/2004	Wang	
		US- 2004/0198917	10/7/2004	Castner	
		US- 2005/0101743	5/12/2005	Stacy et al.	
		US- 2005/0203248	9/15/2005	Zheng et al.	
		US- 6,706,813	3/16/2004	Chiba et al.	
HL		US- 6,060,549	5/9/2000	Li et al.	
		US-			

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NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
HL		Star Polymers by Immobilizing Functional Block Copolymers, by Koji Ishizu, Tokyo Institute of Technology, Meguro-ku, Tokyo, Japan, Star and Hyperbranched Polymers, 1999, ISBN 0-8247-1986-7			
		Formation of Worm-like Micelles from a Polystyrene-Polybutadiene-Polystyrene Block Copolymer in Ethyl Acetate, Canham et al., J.C.S. Faraday I, 1980, 76, 1857-1867			
		Anomalous Behaviour of Solutions of Styrene-Butadiene Block Copolymers in Some Solvents, Tuzar et al., Makromol. Chem. 178, 22743-2746 (1977)			
		Association of Block Copolymers In Selective Solvents, 1 Measurements on Hydrogenated Poly(styrene-isoprene) in Decane and in trans-Decalin, Mandema et al., Makromol. Chem. 180, 1521-1538 (1979)			
		Light-Scattering Studies of a Polystyrene-Poly(methyl methacrylate) Two-Block Copolymer in Mixed Solvents, Utiyama et al. Macromolecules Vol. 7, No. 4, July-August, 1974			
		Greenwood, N.N.; Eamshaw, A., Chemistry of the Elements, pp 1126-1127, Pergamon Press, New York 1984			
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HL		Rheology of End-Tethered Polymer Layered Silicate Nanocomposites, R. Krishnamoorti et al., Macromol. 1997, 30, 4097-4102			

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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where p	T ²
HL		Rheology of Nanocomposites Based on Layered Silicates and Polyamide-12, B. Hoffman et al., Colloid Polm. Sci. 278:629-636 (2000)	
		Quaternary Ammonium Compounds, Encyclopedia of Chem Tech., 4th Ed. Vol. 20, 1996, Wiley & Sons, pp. 739-767	
		R.P. Quirk and S.C. Galvan, Macromolecules, 34, 1192-1197 (2001)	
		M. Moller, J.P. Spaz, A. Roescher, S. Mobmer, S.T. Selvan, H.A. Klok, Macromol. Symp. 117, 207-218 (1997)	
		T. Cosgrove, J.S. Phipps, R.M. Richardson, Macromolecules, 26, 4363-4367 (1993)	
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		Functionalized Core Shell Polymers Prepared by Microemulsion Polymerization, E. Mendizabal, J.E. Pugl, A. Aguilar, S. Gonzalez-Villegas, 477/Antec '97/1733-1737	
		Ultrahydrophobic and Ultrayophobic Surfaces: Some Comments and Examples, Wei Chen et al., The ACS Journal of Surfaces and Colloids, May 11, 1999, Vol. 15, No. 10, pp 3395-3399, Polymer Science and Engineering Dept., Univ. of MA, Amherst, MA 01003	
		Super-Repellent Composite Fluoropolymer Surfaces, S.R. Coulson, I. Woodward, J.P.S. Badyal, The Journal of Physical Chemistry B, Vol. 104, No. 37, Sept. 21, 2000, pp. 8836-8840, Dept. of Chemistry, Science Laboratories, Durham University, Durham, DH1 3LE, England, U.K.	
HL		Transformation of a Simple Plastic into a Superhydrophobic Surface, H. Yildirim Erbil et al., Science Vol. 299, Feb. 28, 2003, pp. 1377-1380	

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